DANIEL PEELEN

(717) 572-8937 | dapeelen@gmail.com | linkedin.com/in/daniel-peelen | https://dannypeelen.github.io

EDUCATION

University of Pittsburgh, School of Computing and Information

B.S, Computer Science, Hungarian

- **Achievements:** Dean's List, 3.92 GPA
- **Coursework:** Introduction to Deep Learning, Introduction to Machine Learning, Data Structures & Algorithms, Systems Software

WORK EXPERIENCE

PNC Financial Services Group, Inc. **June 2025 - Aug 2025**

Software Engineering Intern *Pittsburgh, PA*

- Selected out of thousands of applicants for a competitive internship position to work in a professional environment.
- Utilized precise Google and Excel Spreadsheets integrated with independent Python scripts to streamline data processing.

University of Pittsburgh School of Computing and Information **Aug 2024 - Dec 2024**

Teaching Assistant for Discrete Mathematics *Pittsburgh, PA*

- Led recitations and office hours to assist students with Discrete Mathematics topics, including formal proofs and set theory.
- Engaged in problem-solving techniques that supported clear algorithmic thinking essential for algorithm design.

University of Pittsburgh Women's Volleyball Team **Sep 2023 - Dec 2024**

Data Analyst & Team Manager *Pittsburgh, PA*

- Utilized VolleyMetrics to code play-to-plays of games and analyzed opposing teams to create scout books for the coaches.
- Developed scouting reports and implemented strategies to optimize practices, ensuring maximum efficiency.

PROJECTS

GPT-2 Prototype **April 2025**

University of Pittsburgh

- Implemented a minimal GPT-2 architecture from scratch in PyTorch, including core components like multi-head causal self-attention, GELU-activated feedforward layers, positional embeddings, and residual connections.
- Developed a custom model loader to integrate and align pretrained HuggingFace GPT-2 weights, resolving parameter mismatches and shape incompatibilities.

Flashcard Autogenerator **November 2024**

University of Pittsburgh

- Streamlined study preparation, reducing flashcard creation time by automating extraction from PDF or PPTX files and formatting content for Anki decks.
- Utilized several Python libraries and Google's flan-t5 model from HuggingFace to fine-tune using a dataset made from scratch.
- Plans to incorporate Flask and SQLite to build into a full-stack website.

March Madness Game Predictor **March 2025**

University of Pittsburgh

- Designed and trained a neural network using **PyTorch** to predict NCAA basketball game scores based on box score statistics.
- Collected large-scale game data through API calls, using pandas for data manipulation and sci-kit-learn for preprocessing.

SKILLS

- **Programming Languages:** Python, Java, C/C++, HTML5, CSS, PHP, JavaScript, SQL
- **Libraries/Frameworks:** BeautifulSoup, PyTorch, SQLite3, Pandas, TensorFlow, SciKit-learn, React, NodeJS, Next.js, Vite
- **Technical Skills:** HuggingFace, Machine Learning, Command-Line Interface (CLI), Linux, Backend, Databases, Git, APIs
- **Languages:** English (native), Hungarian (conversational)

EXTRACURRICULARS/AWARDS

Officer, Computer Science Club @ Pitt

- Help organize speakers from Microsoft, Google, and Amazon for the largest organization on Pitt campus.
- Organized University of Pittsburgh's **SteelHacks** hackathon, with 250+ attendees and sponsors such as Google, PNC, and Eaton.

Director, SteelHacks

- Applied Agile methodologies to coordinate tasks for SteelHacks ensuring smooth operation and delivering timely communication.

Officer, Quiz Bowl

- Competed against various colleges in quiz bowl tournaments and organized several tournaments for local high school teams.

CITIZENSHIP

USA, Hungary